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**From:** Murray, Regan [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4B06D968152A4CEFB83C9864FF5C89C6-MURRAY, REGAN]  
**Sent:** 9/4/2018 7:46:07 PM  
**To:** Bernagros, Jason [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=8d2f782bab44e3da4a9253629d7b-Berner, Jas]  
**Subject:** RE: Water Distribution Systems Modeling using EPANET

Great, thanks!

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**From:** Bernagros, Jason  
**Sent:** Tuesday, September 04, 2018 3:41 PM  
**To:** Murray, Regan <Murray.Regan@epa.gov>  
**Subject:** RE: Water Distribution Systems Modeling using EPANET

Hi Regan,

I hope you had a good Labor Day holiday.

**Personal Matters / Ex. 6**

Thanks for letting me know there is travel funding for me to attend the EPANET training. I'll register and get my travel plans together this week.

Thanks also for letting me know about the upcoming free SWMM training, I'd really like to take that as well.

-JB

**Jason T. Bernagros**

*Landscape Architect*

LEED AP BD + C

**US EPA Office of Research and Development**

**National Risk Management Research Laboratory**

**Water Systems Division, Water Resources Recovery Branch**

O: WJC West, Desk 4305D

P: 202-566-1671

E: [bernagros.jason@epa.gov](mailto:bernagros.jason@epa.gov)

Mail: 1200 Pennsylvania Ave. NW, MC 1807T, Washington, DC 20460

Delivery: 1301 Constitution Ave., NW (WJC-West Building, Desk 4305D), Washington, DC 20004

W: (Green Infrastructure) <http://www2.epa.gov/water-research/green-infrastructure-research>

(Water Innovation & Technology) <https://www.epa.gov/water-innovation-tech>

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**From:** Murray, Regan  
**Sent:** Friday, August 31, 2018 2:29 PM  
**To:** Bernagros, Jason <[Bernagros.Jason@epa.gov](mailto:Bernagros.Jason@epa.gov)>  
**Subject:** RE: Water Distribution Systems Modeling using EPANET

Hi Jason,

Yes, we have enough to cover a short trip to Cincinnati. Here is the location to register:

[www.regonline.com/EPANet-Intro2018](http://www.regonline.com/EPANet-Intro2018)

Once there, select the registration category: **EPA**, when asked, enter code: Personal Email / Ex. 6 (code is case sensitive). There should be a Personal Matters / Ex. 6 charge.

Also, the same organization is going to be holding SWMM training soon and it will also be free to EPA employees. I'll send you a link when I see it.

Thanks,  
Regan

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**From:** Bernagros, Jason  
**Sent:** Thursday, August 30, 2018 12:05 PM  
**To:** Murray, Regan <[Murray.Regan@epa.gov](mailto:Murray.Regan@epa.gov)>  
**Subject:** RE: Water Distribution Systems Modeling using EPANET

Hi Regan,

Thanks for letting me know about this EPANET training opportunity. It sounds like a good opportunity for me to understand how to use EPANET. I would be interested in participating in it. Do we have travel money for me to attend the training? It would probably be a good opportunity for me to catch up with people in-person at the lab.

This got me thinking a little about taking a formal SWMM training in the future. Would that be something the division would support? I know there are some self-paced online courses and the 2019 International Conference on Water Management Modeling (Feb. 27 – 28 in Toronto) has a SWMM training before the conference (<https://www.icwmm.org/>).

Thanks again,

**Jason T. Bernagros**  
*Landscape Architect*  
*LEED AP BD + C*  
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W: (Green Infrastructure) <http://www2.epa.gov/water-research/green-infrastructure-research>  
(Water Innovation & Technology) <https://www.epa.gov/water-innovation-tech>

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**From:** Murray, Regan  
**Sent:** Thursday, August 30, 2018 9:43 AM  
**To:** Bernagros, Jason <[Bernagros.Jason@epa.gov](mailto:Bernagros.Jason@epa.gov)>  
**Cc:** Hayes, Sam <[Hayes.Sam@epa.gov](mailto:Hayes.Sam@epa.gov)>  
**Subject:** FW: Water Distribution Systems Modeling using EPANET

Hi Jason,

We are having an EPANET training course here in Cincinnati on September 20-21. This is sponsored by UWRI and NCIMM but free to EPA employees. I know you mentioned that you don't have experience with EPANET and this would be a great chance to jump in and learn more. Let me know if you are interested and can attend.

Thanks,

Regan

**From:** UWRI [<mailto:events@regonline.com>]

**Sent:** Monday, August 20, 2018 11:09 AM

**To:** Murray, Regan <[Murray.Regan@epa.gov](mailto:Murray.Regan@epa.gov)>

**Subject:** Water Distribution Systems Modeling using EPANET

**ONLY 4 DAYS LEFT FOR EARLY REGISTRATION**

Urban Watersheds Research Institute and  
National Center for Infrastructure Modeling & Management

present a class on

# Water Distribution Systems Modeling Using EPANET

**When:** Thursday and Friday, September 20 & 21, 2018  
8:30 am - 5:00 pm

**Where:** U.S. Environmental Protection Agency  
26 W. Martin Luther King Dr.  
Cincinnati, OH 45268

## **CEU's, PDH's :**

A certificate of completion will be issued. Also, depending on the State you practice, you may be eligible for 1.5 CEU's, 15 PDH's.

## **Why Take This Class:**

If you are a municipal water systems professional involved in design, analysis or operation of supply systems, this class is for you. It is designed for engineers, planners and water systems operators ranging in experience from novice to experienced modelers. You will learn how to use and apply the EPANET model and improve your skills.

Please pass this mailer on to your co-workers and colleagues that may have an interest in this.

## **About This Class:**

A 2-day (14 hour) class on how to analyze and design municipal water distribution systems using the latest version of EPANET software. This software is available, at no cost, from the U.S. Environmental Protection Agency (EPA).

**The class has 10 modules** that include lectures, demonstrations, and hands-on exercises in a workshop format. **Class modules:**

(1) Theory & history of modeling (2) Constructing a basic steady state model. (3) Pumps, tanks, valves and sources. (4) Using GIS/CAD to construct a network model. (5) Steady state calibration. (6) Extended period simulations. (7) SCADA, field data and calibration. (8) Water quality. (9) Other operational applications. (10) Other EPANET related resources.

Although the current version of EPANET is not integrated with GIS, the instructors will show how to use EPANET with free third party GIS software, and demonstrate an EPA test version of the EPANET software that will include a GIS interface in the future.

### ***Instructors:***

**Walter Grayman**, PE, PhD, Consulting Engineer with over 45 years of engineering experience, and

**Arnold Strasser**, PE, Denver Water (ret) with over 30 years of engineering experience in water systems.

This team of instructors will provide the students with in-depth and practical knowledge about modeling, design, operation and analysis of simple and complex water systems.

**Click Here for More Information** about this class and its instructors, or copy and paste the following link into your browser: <https://www.regonline.com/EPANET-Intro2018>

**A Word About Computers:** Bring your own laptop with the EPANET software installed! The software may be downloaded for free from EPA at: <http://www2.epa.gov/water-research/epanet#downloads>

The size of the classroom will be limited. To assure a space go to the full class description page and then click the "Register Now" button.

### **List of all UWRI Remaining Classes Offered in 2018:**

Feb 15	Overview of WQ Regulations and Compliance <a href="https://www.regonline.com/WQReg_Feb2018">https://www.regonline.com/WQReg_Feb2018</a>
Mar 29 & 30	Regional Statistical Hydrology <a href="http://www.regonline.com/Stat_Mar-2018">www.regonline.com/Stat_Mar-2018</a>
Apr 26 & 27	Stormwater Detention Systems <a href="http://www.regonline.com/detention-2018">www.regonline.com/detention-2018</a>
Jun 28 & 29	Hydrology Using HEC HMS <a href="http://www.regonline.com/HEC-HMS_Jun2018">www.regonline.com/HEC-HMS_Jun2018</a>
Jul 26 & 27	FIRM Map Revisions and Maintenance <a href="http://www.regonline.com/FIRM_Jul2018">www.regonline.com/FIRM_Jul2018</a>
Aug 24	BMP/LID Selection and Design <a href="http://www.regonline.com/LID-BMP-Aug2018">www.regonline.com/LID-BMP-Aug2018</a>
Sep 20 & 21	Introduction EPANET 2.0 Model <a href="https://www.regonline.com/EPANET-Intro2018">https://www.regonline.com/EPANET-Intro2018</a>
Oct 25 & 26	Use of SWMM for Drainage Design and Planning. <a href="http://www.regonline.com/SWMM-Dr-Ping">www.regonline.com/SWMM-Dr-Ping</a>

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